

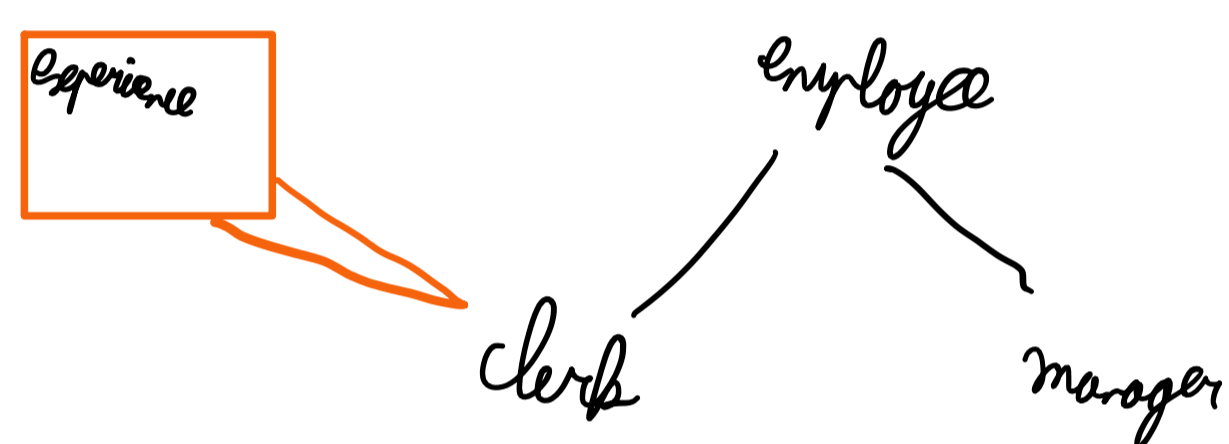
check info can be done by manager or clerk

make offer can be done by clerk; must be senior clerk (\equiv experience ≥ 5 years)

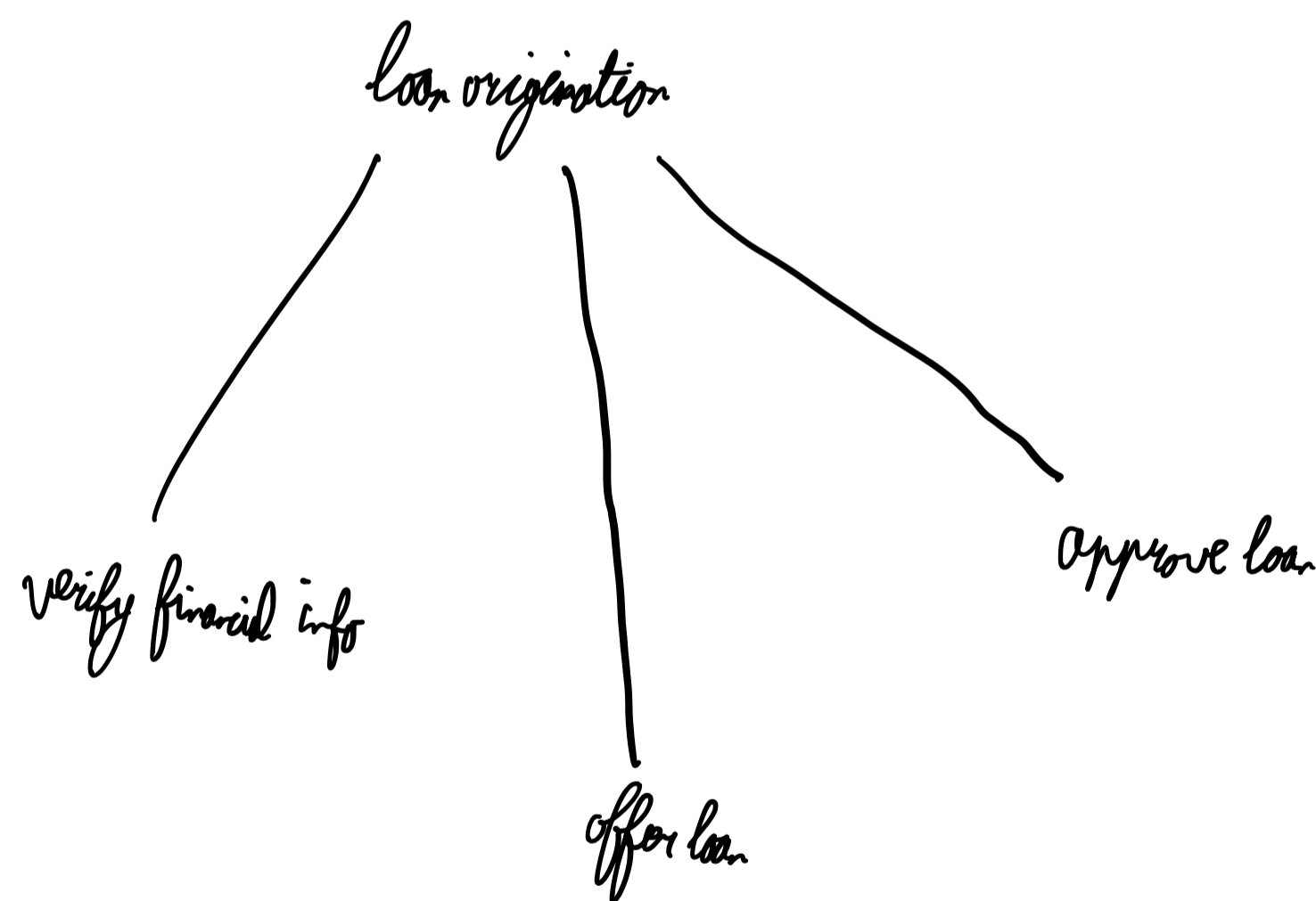
approve loan can be done by manager

during office hours only (active process)

role hierarchy



purpose hierarchy



access purpose authorizations

$\langle \text{verify financial info}, \langle \text{employee}, (\text{currenttime} \geq \text{officehoursstart}) \wedge (\text{currenttime} \leq \text{officehoursend}) \rangle \rangle$

$\langle \text{offer loan}, \langle \text{clerk}, (\text{currenttime} \geq \text{officehoursstart}) \wedge (\text{currenttime} \leq \text{officehoursend}) \wedge (\text{loanamount} \leq 1000 \vee \text{experience} \geq 5 \text{ (years)}) \rangle \rangle$

$\langle \text{approve loan}, \langle \text{manager}, (\text{currenttime} \geq \text{officehoursstart}) \wedge (\text{currenttime} \leq \text{officehoursend}) \rangle \rangle$